Abstract

A time series is a set of data normally collected at usual intervals and often contains huge amount of individual privacy. The need to protect privacy and anonymization of time-series while trying to support complex queries such as pattern range and pattern matching queries. The conventional (k, p)-anonymity model cannot effectively address this problem as it may suffer serious pattern loss. In the proposed work a new technique called additive sanitization has been developed which increment the supports of item sets and their subsets in order to reduce pattern loss and prevent linkage attack.

References

Additive Sanitization: A Technique for Pattern-Preserving Anonymization for Time-Series Data


Index Terms

Computer Science

Algorithms

Keywords

Time series pattern sanitization privacy anonymity